

2017

Synthesis and characterization of Co doped ZnO prepare by dip-coating method

A.R. Khantoul, M.C. Benachour, H. Fatmi, H. Serrar, S. AMARA, M. Sebais

Abstract : Abstract In this work, we studied deposited Cobalt- doped ZnO (ZnO:Co) thin films via dip-coating technique onto glass substrate, Zinc acetate dehydrate, cobalt acetate, 2- methoxyethanol and ethanolamine were used as starting materials. Then we have characterized them as X-ray diffraction , UV- visible, atomic force microscopy (AFM). It is found that all the thin films have good crystallinity and a preferential orientation crystallites a long [002] of ZnO with wurtzite structure, and AFM have provided the information on morphology of this films where the size grain and average surface roughnes (Rms).thin films, ZnO, (ZnO:Co),dip-coating

Keywords : Thin films, ZnO, (ZnO:Co), Dip-Coating